

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	(fluid\$4 adj catalytic adj cracking and (vertical or stand) adj (conduit or pipe) with inlet with stripp\$4 adj (vapor or gas)).clm.	US-PGPUB	OR	ON	2007/10/29 11:10
S1	5	US-4818372-\$.DID. or US-4946656-\$.DID. or US-4978440-\$.DID. or US-5055177-\$.DID. or US-5389232-\$.DID.	USPAT	OR	OFF	2006/03/13 19:11
S2	1252	208/89.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 19:21
S3	0	208/89.ccls. and snorkle	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 13:47
S4	0	208/89.ccls. and vertical adj (conduit or pipe) with inlet with stripp\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 13:49
S5	1	208/89.ccls. and (vertical or stand) adj (conduit or pipe) with stripp\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 13:49
S6	28	("2784803"   "3152066"   "3661799"   "3677715"   "3909392"   "4043899"   "4066533"   "4070159"   "4298453"   "4394349"   "4404095"   "4502947"   "4579716"   "4588558"   "4606814"   "4623446").PN. OR ("5055177"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 13:52

## EAST Search History

S7	131	("2427112"   "2458862"   "2685498"   "2730508"   "2784803"   "2838063"   "2886419"   "2934494"   "3053753"   "3074878"   "3113095"   "3152066"   "3355380"   "3617497"   "3661799"   "3677715"   "3692667"   "3758403"   "3784360"   "3821103"   "3886060"   "3894936"   "3896024"   "3909392"   "4026789"   "4043899"   "4066533"   "4070159"   "4093535"   "4149964"   "4219407"   "4283273"   "4298453"   "4394349"   "4404095"   "4411773"   "4419221"   "4422925"   "4427537"   "4427538"   "4437977"   "4446107"   "4450241"   "4464250"   "4502947"   "4572780"   "4579716"   "4588558"   "4606814"   "4623446"   "4624771"   "4764268"   "4786400"   "4818372"   "5019239"   "5043058"   "5087349").PN. OR ("4818372"   "4946656"   "4978440"   "5055177"   "5389232").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 19:19
S8	25	208/89.ccls. and recover\$4 with stripp\$4 with vapor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:09
S9	5	208/89.ccls. and recover\$4 with stripp\$4 adj vapor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:10
S10	67	208/89.ccls. and stripp\$4 with vapor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:09
S11	9	208/89.ccls. and stripp\$4 adj vapor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:10
S12	192	fluid\$4 adj catalytic adj cracking and recover\$4 with stripp\$4 adj (vapor or gas)	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 14:11
S13	221	fluid\$4 adj catalytic adj cracking and recover\$4 with stripp\$4 adj (vapor or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 14:12
S14	0	fluid\$4 adj catalytic adj cracking and recover\$4 with stripp\$4 adj (vapor or gas) and snorkle	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 14:15
S15	0	fluid\$4 adj catalytic adj cracking and snorkle	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 14:12

## EAST Search History

S16	0	catalytic adj cracking and snorkle	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 14:12
S17	1	fluid\$4 adj catalytic adj cracking and recover\$4 with stripp\$4 adj (vapor or gas) and vertical adj (conduit or pipe) with inlet with stripp\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 14:18
S18	0	fluid\$4 adj catalytic adj cracking and vertical adj (conduit or pipe) with inlet with recover\$4 with stripp\$4 adj (vapor or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 14:18
S19	0	fluid\$4 adj catalytic adj cracking and vertical adj (conduit or pipe) with inlet same recover\$4 with stripp\$4 adj (vapor or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/29 11:10
S20	0	fluid\$4 adj catalytic adj cracking and (vertical or stand) adj (conduit or pipe) with inlet same recover\$4 with stripp\$4 adj (vapor or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 14:19
S21	6	fluid\$4 adj catalytic adj cracking and (vertical or stand) adj (conduit or pipe) with inlet with stripp\$4 adj (vapor or gas)	US-PGPUB; USPAT; USOCR	OR	ON	2007/10/29 11:10
S22	25	("2838063"   "2886419"   "2934494"   "3784360"   "3821103"   "4219407"   "4404095"   "4446107"   "4464250"   "4502947"   "4572780"   "4588558").PN. OR ("4946656").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 15:15
S23	0	cyclone adj separat\$4 with dipleg with snorkel	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 15:16
S24	231	cyclone adj separat\$4 with dipleg	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 15:16
S25	41	("1954352"   "2582712"   "2608526"   "2723951"   "2741549"   "3655518"   "3717438"   "3847566"   "3855070"   "3867110"   "3876392"   "3890111"   "3891402"   "3904549"   "3927996"   "3935466"   "3957459"   "3958957"   "3975168"   "3985519"   "3998607").PN. OR ("4243489").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 16:51
S26	0	conduit with within with dipleg	USPAT	OR	OFF	2006/03/09 16:57
S27	17	conduit with within with dipleg	USPAT	OR	OFF	2006/03/09 16:57

## EAST Search History

S28	19	conduit with within with dipleg	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/09 16:57
S29	21	conduit with within with dipleg	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 17:02
S30	0	conduit adj within adj dipleg	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 17:03
S31	0	conduit adj inside adj dipleg	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 17:02
S32	0	pipe adj within adj dipleg	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 17:03
S33	0	tube adj within adj dipleg	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/09 17:03
S34	1362	208/113.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 11:26
S35	1	("5362379").PN.	USPAT; USOCR	OR	OFF	2006/03/10 14:01
S36	13	("3565968"   "5122171"   "5171423"   "5178648"   "5262046"   "5363379"   "5372707"   "5464528"   "5514271"   "5538696").PN. OR ("5681450").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/10 16:11
S37	508	208/150.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 11:26
S38	278	96/372.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 15:09
S39	40	96/378.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 15:12
S40	465	55/345.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 15:52
S41	276	55/349.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 16:03
S42	1583	55/459.1.ccls.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 15:52

## EAST Search History

S43	84	(S41 or S42) and catalyt\$4 with crack\$4 and cyclon\$4 with separat\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 16:05
S44	86	(S41 or S42) and catalyt\$4 with crack\$4	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 16:05
S45	86	(S41 or S42) and catalyt\$4 with crack\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 17:44
S46	1	("4572780").PN.	USPAT; USOCR	OR	OFF	2006/03/13 17:44
S47	5	US-4818372-\$.DID. or US-4946656-\$.DID. or US-4978440-\$.DID. or US-5055177-\$.DID. or US-5389232-\$.DID.	USPAT	OR	OFF	2006/03/13 19:13
S48	1	S47 and purge with amount	USPAT	OR	OFF	2006/03/13 19:24
S49	25	("2838063"   "2886419"   "2934494"   "3784360"   "3821103"   "4219407"   "4404095"   "4446107"   "4464250"   "4502947"   "4572780"   "4588558").PN. OR ("4946656").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 19:16
S50	0	S49 and purge.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 19:18
S51	0	S49 and purge	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:18

## EAST Search History

S52	131	("2427112"   "2458862"   "2685498"   "2730508"   "2784803"   "2838063"   "2886419"   "2934494"   "3053753"   "3074878"   "3113095"   "3152066"   "3355380"   "3617497"   "3661799"   "3677715"   "3692667"   "3758403"   "3784360"   "3821103"   "3886060"   "3894936"   "3896024"   "3909392"   "4026789"   "4043899"   "4066533"   "4070159"   "4093535"   "4149964"   "4219407"   "4283273"   "4298453"   "4394349"   "4404095"   "4411773"   "4419221"   "4422925"   "4427537"   "4427538"   "4437977"   "4446107"   "4450241"   "4464250"   "4502947"   "4572780"   "4579716"   "4588558"   "4606814"   "4623446"   "4624771"   "4764268"   "4786400"   "4818372"   "5019239"   "5043058"   "5087349").PN. OR ("4818372"   "4946656"   "4978440"   "5055177"   "5389232").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 19:19
S53	3	S52 and purge	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 19:19
S54	2	208/89.ccls. and steam near purge	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 19:22
S55	6	208/113.ccls. and purge with amount	USPAT	OR	OFF	2006/03/14 12:36
S56	0	purge with stripper adj vapor	USPAT	OR	OFF	2006/03/13 19:29
S57	0	purge with stripper adj vapor	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/13 19:29
S58	0	purge with stripper adj vapor	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:29
S59	9	purge with stripper with vapor	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/13 19:29
S60	25	("2838063"   "2886419"   "2934494"   "3784360"   "3821103"   "4219407"   "4404095"   "4446107"   "4464250"   "4502947"   "4572780"   "4588558").PN. OR ("4946656").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 12:06

## EAST Search History

S61	1	vertical near conduit with primary adj cyclone	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 12:07
S62	62	208/113.ccls. and purge	USPAT	OR	OFF	2006/03/14 12:36
S63	176	208/113.ccls. and purg\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 12:37
S64	31	208/113.ccls. and purg\$4 with separat\$4	US-PGPUB; USPAT; USOCR	OR	ON	2006/03/14 12:38
S65	19	("2535140"   "4397738"   "4482451"   "4581205"   "4670410"   "4689206"   "4701307"   "4738829"   "4792437"   "4963328"   "4988430"   "5262046").PN. OR ("5584985").URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 12:55
S66	1	S65 and purge	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 16:13
S67	7	208/113.ccls. and purge with rate	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 16:13
S68	12	("4455220"   "4478708"   "4502947"   "4581205"   "4588558"   "4623446"   "4666586"   "4961863"   "5171423").PN. OR ("5665949"). URPN.	US-PGPUB; USPAT; USOCR	OR	OFF	2007/09/05 09:36
S69	64	"I12" and purge	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 16:15
S71	0	S68 and purge	US-PGPUB; USPAT; USOCR	OR	OFF	2006/03/14 16:15
S72	2	("3172744").PN.	USPAT; USOCR	OR	OFF	2006/03/14 17:58
S73	1	("5584985").PN.	USPAT; USOCR	OR	OFF	2007/09/05 09:37